

- 199 Competitiveness of transgenic sugar beet resistant to beet necrotic yellow vein virus and potential impact on wild beet populations
D. Bartsch, M. Schmidt, M. Pohl-Orf, C. Haag & I. Schuphan
- 207 Phylogenetic relationships and introgression patterns between incipient parapatric species of Italian brown trout (*Salmo trutta* L. complex)
E. Giuffra, R. Guyomard & G. Forneris
- 221 DNA fingerprinting data and the problem of non-independence among pairwise comparisons
B. N. Danforth & C. R. Freeman-Gallant
- 229 Hierarchical genetic structure and gene flow in three sympatric species of Amazonian rodents
J. L. Patton, M. N. F. Da Silva & J. R. Malcolm
- 239 Distinguishing between primary and secondary intergradation among morphologically differentiated populations of *Anolis marmoratus*
C. J. Schneider
- 251 Genotypic diversity revealed by allozymes and oligonucleotide DNA fingerprinting in French populations of the aquatic macrophyte *Sparganium erectum*
Y. Piquot, P. Saumitou-Laprade, P. Vernet & J. T. Epplen
- 259 Population genetic structure of the butterfly *Melitaea didyma* (Nymphalidae) along a northern distribution range border
J. Johannesen, M. Veith & A. Seitz
- 269 Low genetic variability of the koala *Phascolarctos cinereus* in south-eastern Australia following a severe population bottleneck
B. A. Houlden, P. R. England, A. C. Taylor, W. D. Greville & W. B. Sherwin

SHORT COMMUNICATIONS

- 283 Identification of sex in Cetaceans by multiplexing with three ZFX and ZFY specific primers
M. Bérubé & P. Palsbøll
- 289 Molecular sexing of the communally breeding pukeko: an important ecological tool
C. D. Millar, D. M. Lambert, S. Anderson & J. L. Halverson
- 295 Highly conserved nuclear copies of the mitochondrial control region in the desert locust *Schistocerca gregaria*: some implications for population studies
De-Xing Zhang & G. M. Hewitt
- 301 Owl pellets as a source of DNA for genetic studies of small mammals
P. Taberlet & L. Fumagalli

PRIMER NOTES

- 307 Highly polymorphic microsatellites in the house sparrow *Passer domesticus*
K. Neumann & J. H. Wetton
- 311 Development of PCR primers for nine polymorphic American mink *Mustela vison* microsatellite loci
M. O'Connell, J. M. Wright & A. Farid

- 313 Polymorphic microsatellites from sperm whales and their use in the genetic identification of individuals from naturally sloughed pieces of skin
K. R. Richard, H. Whitehead & J. M. Wright
- 317 Usefulness of heterologous microsatellites obtained from brook charr *Salvelinus fontinalis* Mitchill in other *Salvelinus* species
B. Angers & L. Bernatchez

Volume 5, Number 3, June 1996

ORIGINAL ARTICLES

- 321 Testing models of female reproductive migratory behavior and population structure in the Caribbean hawksbill turtle, *Eretmochelys imbricata*, with mtDNA sequences
A. L. Bass, D. A. Good, K. A. Bjørndal, J. I. Richardson, Z.-M. Hillis, J. A. Horrocks & B. W. Bowen
- 329 Migration and evolution of lesser long-nosed bats, *Leptonycteris curasoae*, inferred from mitochondrial DNA
G. S. Wilkinson & T. H. Fleming
- 341 Widespread geographic distribution of mitochondrial haplotypes in rock-dwelling cichlid fishes from Lake Tanganyika
A. Meyer, L. L. Knowles & E. Verheyen
- 351 The evolution of growth-forms in the Macronesian genus *Aeonium* (Crassulaceae) inferred from chloroplast DNA RFLPs and morphology
T. H. M. Mes & H. t' Hart
- 365 A wide-ranging survey of cross-species microsatellite amplification in birds
C. R. Primmer, A. P. Møller & H. Ellegren
- 379 Cytonuclear genetic structure of a hybrid zone in lizards of the *Sclerophorus grammicus* complex (Sauria, Phrynosomatidae)
J. W. Sites Jr, C. J. Basten & M. A. Asmussen
- 393 Use of microsatellite loci to classify individuals by relatedness
M. S. Blouin, M. Parsons, V. Lacaille & S. Lotz
- 403 DNA RFLPs at a highly polymorphic locus distinguish European and African subspecies of the honey bee *Apis mellifera* and suggest geographic origins of New World honey bees
M. McMichael & H. G. Hall
- 417 Genetic introgression between native and introduced brown trout *Salmo trutta* populations in the Rhône River basin
C. R. Largiadèr & A. Scholl
- 427 Diversity and distribution of subterranean bacteria in groundwater at Oklo in Gabon, as determined by 16S rRNA gene sequencing
K. Pedersen, J. Arlinger, L. Hallbeck & C. Pettersson
- 437 RAPD identification of microsatellites in *Daphnia*
A. Ender, K. Schwenk, T. Städler, B. Streit & B. Schierwater

- 443 Ecological interactions between sympatric *Mytilus* species on the west coast of Canada investigated using PCR markers
D. D. Heath, D. R. Hatcher & T. J. Hilbish
- 449 Last male sperm precedence in a damselfly demonstrated by RAPD profiling
R. E. Hooper & M. T. Siva-Jothy

TECHNICAL NOTE

- 453 A simple new method for estimating null allele frequency from heterozygote deficiency
J. F. Y. Brookfield
- 457 Marine mammal faeces as a source of DNA
D. Tikal, D. Blair & H. D. Marsh

PRIMER NOTE

- 459 Trinucleotide microsatellite loci in a swarm-founding neotropical wasp, *Parachartergus colobopterus* and their usefulness in other social wasps
J. E. Strassman, C. R. Solís, K. Barefield & D. C. Queller

Volume 5, Number 4, August 1996

ORIGINAL ARTICLES

- 463 RAPD analysis reveals low genetic variability in the endangered light-footed clapper rail
J. A. Nusser, R. M. Goto, D. B. Ledig, R. C. Fleischer & M. M. Miller
- 473 Phylogeography and population structure of the Atlantic and Mediterranean green turtle *Chelonia mydas*: a mitochondrial DNA control region sequence assessment
S. E. Encalada, P. N. Lahanas, K. A. Bjørndal, A. B. Bolten, M. M. Miyamoto & B. W. Bowen
- 485 Genetic exchange and recombination in populations of the root-infecting fungus *Armillaria gallica*
B. J. Saville, H. Yoell & J. B. Anderson
- 499 Genetic structure of the global population of banana black leaf streak fungus, *Mycosphaerella fijiensis*
J. Carlier, M. H. Lebrun, M. F. Zapater, C. Dubois & X. Mourichon
- 511 Mating structure and nestmate relatedness in a communal bee, *Andrena jacobae* (Hymenoptera, Andrenidae), using microsatellites
R. J. Paxton, P. A. Thorén, J. Tengö, A. Estoup & P. Pamilo
- 521 RAPD marker estimation of genetic structure among isolated northern leopard frog populations in the south-western USA
D. N. Kimberling, A. R. Ferreira, S. M. Shuster & P. Keim
- 531 Micro-evolution in the weevil genus *Larinus*: the formation of host biotypes and speciation
D. T. Briesse, C. Espiau & A. Pouchot-Lermans

- 547 Chloroplast DNA phylogeography of the argan tree of Morocco
A. El Mousadik & R. J. Petit
- 557 Indo-Pacific population structure and evolutionary history of the coconut crab *Birgus latro*
S. Lavery, C. Moritz & D. R. Fielder

SHORT COMMUNICATIONS

- 571 Microsatellites from the beluga whale *Delphinapterus leucas*
F. C. Buchanan, M. K. Friesen, R. P. Littlejohn & J. W. Clayton
- 577 Low mitochondrial DNA variation and recent colonization of Scandinavia by the wood lemming *Myopus schisticolor*
V. Fedorov, M. Jaarola & K. Fredga
- 583 Identification of a hybrid zone between distinctive colour variants of the alpine weta *Hemideina maori* (Orthoptera: Stenopelmidae) on the Rock and Pillar range, southern New Zealand
T. M. King, G. P. Wallis, S. A. Hamilton & J. R. Fraser

TECHNICAL NOTES

- 589 Null microsatellite alleles due to nucleotide sequence variation in the grey-sided vole *Clethrionomys rufocanus*
Y. Ishibashi, T. Saitoh, S. Abe & M. C. Yoshida
- 591 An effective method for allele-specific sequencing using restriction enzyme and biotinylation (AS-SURE B)
D.-X. Zhang & G. M. Hewitt

PRIMER NOTES

- 595 A set of primers for the amplification of 20 chloroplast microsatellites in Pinaceae
G. G. Vendramin, L. Lelli, P. Rossi & M. Morgante
- 599 Characterization of microsatellite loci in *Formica lugubris* B and their variability in other ant species
M. Chapuisat
- 602 Erratum

Volume 5, Number 5, October 1996

ORIGINAL ARTICLES

- 603 Sensitive detection of transgenic plant marker gene persistence in soil microcosms
F. Widmer, R. J. Seidler & L. S. Watrud
- 615 Microsatellite analysis of seed dispersal and parentage of saplings in bur oak, *Quercus macrocarpa*
B. D. Dow & M. V. Ashley

- 629 Population structure of the yellow-footed rock-wal-
laby *Petrogale xanthopus* (Gray, 1854) inferred from
mtDNA sequences and microsatellite loci.
L. C. Pope, A. Sharp & C. Moritz
- 641 Stability of transformed antagonistic *Fusarium*
oxysporum strains *in vitro* and in soil microcosms
**Q. Migheli, O. Friard, D. Del Tedesco, M. R. Musso
& M. L. Gullino**
- 651 Kinship and genetic divergence among populations
of tuatara *Sphenodon punctatus* as revealed by
minisatellite DNA profiling
M. O. Finch & D. M. Lambert
- 659 Genetic variation in natural populations of the aphid
Rhopalosiphum padi as revealed by maternally inher-
ited markers
**D. Martínez-Torres, J. C. Simon, A. Fereres &
A. Moya**
- 671 Molecular genetic identification of whale and dolphin
products from commercial markets in Korea and
Japan
C. S. Baker, F. Cipriano & S. R. Palumbi

SHORT COMMUNICATIONS

- 687 Molecular genetic variation following a population
crash in the endangered Mauna Kea silversword,
Argyroxiphium sandwicense ssp. *sandwicense*
(Asteraceae)
E. A. Friar, R. H. Robichaux & D. W. Mount
- 693 DNA fingerprinting supports notions of clonality in
a rare mallee, *Eucalyptus argutifolia*
W. J. Kennington, M. Waycott & S. H. James
- 697 Estimation of genomic variation between British
populations of the potato cyst nematode *Globodera*
pallida using RAPD-PCR
P. R. Burrows, P. D. Halford & K. Evans

PRIMER NOTE

- 703 Isolation and characterization of microsatellite mark-
ers in the African catfish *Clarias gariepinus* (Burchell,
1822)
**P. Galbusera, F. A. Volckaert, B. Hellemans & F.
Ollevier**

Volume 5, Number 6, December 1996

ORIGINAL ARTICLES

- 707 Population level processes in *Rhizobium*
leguminosarum bv. *trifolii*: the role of founder effects
M. J. Hagen & J. L. Hamrick
- 715 Mitochondrial cytochrome b DNA sequence
variation of Atlantic cod *Gadus morhua* from
Norway
E. Árnason & S. Pálsson
- 725 Population structure of red-cockaded woodpeckers
in south Florida: RAPDs revisited
S. M. Haig, R. Bowman & T. D. Mullins
- 735 An analysis of genetic variation in *Astragalus*
cremophylax var. *cremophylax*, a critically
endangered plant, using AFLP markers. **S. E.
Travis, J. Maschinski & P. Keim**
- 747 Genetic and ecotypic structure of a fluorescent
Pseudomonas population
B. Haubold & P. B. Rainey
- 763 Molecular genetic examination of the polymorphic
Arctic charr *Salvelinus alpinus*, of Thingvallavatn, Ice-
land
J. P. Volpe & M. M. Ferguson
- 773 Mitochondrial haplotypes in populations of the plant-
infecting fungus *Sclerotinia sclerotiorum*: wide distri-
bution in agriculture, local distribution in the wild
Y. Kohli & L. M. Kohn
- 785 Population and colony structure of the carpenter ant
Camponotus floridanus
J. Gadau, J. Heinze, B. Hölldobler & M. Schmid
- 793 Population differentiation and evolution in the com-
mon guillemot *Uria aalge*
**V. L. Friesen, W. A. Montevecchi, A. J. Baker,
R. T. Barrett & W. S. Davidson**

SHORT COMMUNICATION

- 807 Development and application of long-PCR for the
assay of full-length animal mitochondrial DNA
W. S. Nelson, P. A. Prodöhl & J. C. Avise

PRIMER NOTE

- 811 Polymorphic microsatellite markers in the loggerhead
shrike *Lanius ludovicianus* isolated from a library
enriched for CA repeats
N. I. Mundy & D. S. Woodruff

815 AUTHOR INDEX

819 KEYWORD INDEX



